

SEP 12 2002

TECH CENTER 1600/2900

RECEIVED
TECH CENTER 1600/2900
02 SEP -6
AH 10:59

FORM PTO 1449 (modified)			Atty Docket No.: (old: 121278.101) New: 215177.00101		Application No. 09/575,377	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			Applicant James J. Hickman			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			Filing Date May 22, 2000		Group 1623-1631	
U.S. Patent Documents						
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS IF APPROPRIATE
MPA	A	5,648,926		Douglas, et al.		
	B	5,223,117		Wrighton, et al.		
	C	5,077,210	1991	Ligler, F.S., et al.		
Foreign Patent Documents						
MPA	D	WO 98/54294	12/03/98	PCT		
	E	EP 0823483A1	02/11/98	European		
	F	0 689 051 A2	06/09/95	European		
Other Document(s) (Including Author, Title, Date, Pertinent Pages, etc.)						
MPA	G	Ambros-Ingerson, J. et al., "Stimulation of Paleocortex Performs Hierarchical Clustering"; <i>Science</i> , 247 ; 1990:1344-48				
MPA	H	Granger, R. et al., <u>An Introduction to Neural and Electronic Networks</u> ; Ed's Zornetzer, S.F., Davis, J.L., and Lau, C., Academic Press, Inc., San Diego; 1991:25-42.				
	I	Adleman, L., "Molecular Computation of Solutions to Combinatorial Problems"; <i>Science</i> , Vol. 266 , 1994.				
	J	Palsson, "Bioinformation and the creation of biological pathways or genetic circuits using silicon based models"; 1997.				
	K	Gross, G.W., et al., "The use of neuronal networks on multielectrode arrays as biosensors"; <i>Biosens. Bioelectron.</i> , 10 , 1995:553-567; 1.				
	L	Stenger, D.A., et al., Related Articles - "Microlithographic determination of axonal/dendritic polarity in cultured hippocampal neurons"; <i>J. Neurosci. Methods</i> ; Aug. 1; 82(2)1998:167-73.				
	M	LeMasson, G., et al., "Activity-dependent regulation of conductances in model neurons"; <i>Science</i> , 259 , 1993:1915-17.				
	N	Marder, E., et al., "Theory in Motion"; <i>Curr. Opin. Neurobiol.</i> ; 5 , 1995:832-40.				
	O	Schizas, C.N., "Learning systems in biosignal analysis"; <i>Biosystems</i> ; 41 , 1997:105-25.				
	P	Hickman, J.J., et al., "Toward orthogonal self-assembly of redox active molecules on Pt and Au: Selective reaction of disulfide with Au and isonitrile with Pt"; <i>Langmuir</i> ; 8 , 1992:357.				
	Q	Schaffner, A., et al., "Investigation of the factors necessary for growth of hippocampal neurons in a defined system"; <i>J. Neurosci. Methods</i> ; 62 ; 1995:111-119.				
	R	Riley, M., Functions of gene products of <i>Escherichia coli</i> ; <i>Microbiol. Rev.</i> ; 57 ; 1993:862-952.				
	S	Freshney, T.T., <u>Culture of Animal Cells: A Manual of Basic Techniques</u> , 4 th Ed., Wiley, John & Sons, March 2000.				
	T	Fromherz, P., et al., "A neuron-silicon junction: A Retzius cell of the leech on an insulated-gate field-effect transistor"; <i>Science</i> ; 252 ; 1991:1290-93.				
	U	Jung, D.R., et al., "Cell-based sensor microelectrode array characterized by imaging x-ray photoelectron spectroscopy, scanning electron microscopy, impedance measurements, and extracellular recordings"; <i>J. Vac. Sci. Technol. A</i> , 16 (3), May/June, 1998:1183-88.				
	V	Becerril, B., et al., "Toxins and genes isolated from scorpions of the genus <i>Tityus</i> "; <i>Toxicon</i> , 35 , 1997:821-35.				
	W	Brazil, O.V., et al., "Toxins as tools in the study of sodium channel distribution in the muscle fibre membrane"; <i>Toxicon</i> , 31 ; 1993:1085-98.				
	X	Cantiello, H.F., "Role of the actin cytoskeleton on epithelial Na ⁺ channel regulation"; <i>Kidney Int.</i> ; 48 , 1995:970-84.				
	Y	Cassola, A.C., et al., "Use of neurotoxins to study Ca ²⁺ channel functions"; <i>Braz. J. Med. Biol. Res.</i> , 29 , 1996:1759-63.				
	Z	Catterall, W.A., et al., "Molecular properties of the sodium channel: a receptor for multiple neurotoxins"; <i>Bull. Soc. Pathol. Exot.</i> , 85 (5 Pt 2); 1992:481-85.				
	AA	Childers, S.R., et al., "Role of cyclic AMP in the actions of the cannabinoid receptors"; <i>Biochem. Pharmacol.</i> , 52 , 1996:819-27.				
	AB	Cowan, F.M., et al., "Hypothesis for synergistic toxicity of organophosphorus poisoning-induced cholinergic crises and anaphylactoid reactions"; <i>U. Appl. Toxicol.</i> , 16 , 1996:25-33.				
	AC	Dryer, S.E., "Na ⁺ -activated K ⁺ channels: a new family of large conductance ion channels"; <i>Trends Neurosci.</i> , 17 , 1994:155-60.				
	AD	Faden, A.I., "Neurotoxic versus neuroprotective actions of endogenous opioid peptides: implications for treatment of CNS injury"; <i>Nida Res. Monogr.</i> , 163 , 1996:318-30.				
	AE	Fields, T.A., et al., "Signalling functions and biochemical properties of pertussis toxin-resistant G-proteins"; <i>Biochem. J.</i> , 321 (Pt3), 1977 Feb 1:561-71.				
	AF	Fozzard, H.A., et al., "The guanidinium toxin binding site on the sodium channel"; <i>Jpn. Heart J.</i> , 37 , 1996:683-92.				
	AG	Harvey, A.L., "Presynaptic effects of toxins"; <i>Int. Rev. Neurobiol.</i> , 32 , 1990:201-39.				
	AH	Hille, B., "Modulation of ion-channel function by G-protein-coupled receptors"; <i>Trends Neurosci.</i> , 17 , 1994:923-42.				
	AI	Holstege, C.P., et al., "Chemical warfare. Nerve agent poisoning"; <i>Crit. Care Clin.</i> , 13 , 1997:923-42.				

full document
not printed
MPA
already
record
MPA

FORM PTO 1449 (modified)		Atty Docket No. (old: 121278.101) New: 215177.00101	Application No. 09/575,377
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Applicant James J. Hickman	
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		Filing Date May 22, 2000	Group 1623-1631
Other Document(s) (continued) (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>MA</i>	AJ	Janiszewski, L., "The action of toxins on the voltage-gated sodium channel"; <i>Pol. J. Pharm.</i> , 42 , 1990:582-88.	
	AK	Nisch, W., et al., "A thin film microelectrode array for monitoring extracellular neuronal activity in vitro," <i>Biosensors & Bioelectronics</i> 9 (1994) pp. 737-741.	
	AL	Gross, Guenter W., et al., "Stimulation of monolayer networks in culture through thin-film indium-tin oxide recording electrodes," <i>Journal of Neuroscience Methods</i> , 50 (1993), pp. 131-143.	
	AM	Pancrazio, Joseph J., et al., "Portable cell-based biosensor system for toxin detection," <i>Sensors and Actuators B</i> 53 (1998) pp. 179-185.	
	AN	Mohr, A., et al., "Performance of a thin film microelectrode array for monitoring electrogenic cells in vitro," <i>Sensors and Actuators B</i> 34 , pp. 265-269.	
	AO	Kallen, R.G., et al., "Structure, function and expression of voltage-dependent sodium channels"; <i>Mol. Neurobiol.</i> , 7 , 1993:383-428.	
	AP	Lewis, R.J., et al., "Origin and transfer of toxins involved in ciguatera"; <i>Comp. Biochem. Physiol. C.</i> , 106 , 1993:615-28.	
	AQ	Mori, Y.G., et al., "Molecular Pharmacology of voltage-dependent calcium channels"; <i>Jpn. J. Pharmacol.</i> , 72 , 1996:83-109.	
	AR	Narahashi, T., et al., "Sodium and GABA-activated channels as the targets of pyrethroids and cyclodiens"; <i>Toxicol. Lett.</i> , 1992.	
	AS	Narahashi, T. et al., "Recent advances in the study of mechanism of action of marine neurotoxins"; <i>Neurotoxicology</i> , 15 , 1994:545-54.	
	AT	Nestler, E.J., et al., "Molecular and cellular mechanism of opiate action: studies in the rat locus coeruleus"; <i>Brain Res. Bull.</i> , 35 , 1994:521-28.	
	AU	Norton, R.S., "Structure-function relationships of sea anemone proteins that interact with the sodium channel"; <i>Toxicon</i> , 29 , 1991:1051-84.	
	AV	Pearson, H.A., "Modulation of voltage-dependent calcium channels in cultured neurons"; <i>Ann. N.Y. Acad. Sci.</i> , 747 , 1994:325-35.	
	AW	Pfister, C., et al., "Interactions of a G-protein with its effector: transducin and cGMP phosphodiesterase in retinal rods"; <i>Cell Signal</i> , 5 , 1993:235-41.	
	AX	Piek, T., "Neurotoxins from venoms of the Hymenoptera - twenty-five years of research in Amsterdam"; <i>Comp. Biochem. Physiol. C.</i> , 96 , 1990:223-33.	
	AY	Rizzo, M.A. et al., "Mechanisms of paresthesiae, dysesthesiae, and hyperesthesiae: role of Na ⁺ channel heterogeneity"; <i>Eur. Neurol.</i> , 36 , 1996:3-12.	
	AZ	Rowan, E.G., et al., "Toxins affecting K ⁺ "; <i>Braz. J. Med. Biol. Res.</i> , 29 , 1996:1765-80.	
	BA	Savolainen, K.M., et al., "Second messengers in cholinergic-induced convulsions and neuronal injury"; <i>Toxicol. Lett.</i> , 1992 Dec; 64-65 Spec No: 437-45.	
	BB	Schantz, E.J. et al., "Properties and use of botulinum toxin and other microbial neurotoxins in medicine"; <i>Microbiol. Rev.</i> , 56 , 1992:80-99.	
	BC	Smith, B.A., "Strychnine poisoning"; [published erratum appears in <i>J. Emerg. Med.</i> , 9 (6), 1991 Nov-Dec:555]; <i>J. Emerg. Med.</i> , 8 , 1990:321-25.	
	BD	Solberg, Y., et al., "The role of excitotoxicity in organophosphorous nerve agents central poisoning"; <i>Trends Pharmacol. Sci.</i> , 18 , 1997:183-85.	
	BE	Swift, A.E., et al., "Ciguatera"; <i>U. Toxicol. Clin. Toxicol.</i> , 31 , 1993:1-29.	
	BF	Uchitel, O.D., "Toxins affecting calcium channels in neurons"; <i>Toxicon</i> , 35 , 1997:1161-91.	
	BG	Van, H.H., et al., "Pharmacological effects of oximes: how relevant are they?"; <i>Arch. Toxicol.</i> , 70 , 1996:779-86.	
	BH	Wu, M., "Enhancement of immunotoxin activity using chemical and biological reagents"; <i>Br. J. Cancer</i> , 75 , 1997:1347-55.	
	BI	Yoshida, S., "Tetradotoxin-resistant sodium channels"; <i>Cell. Mol. Neurobiol.</i> , 14 , 1994:227-44.	
	BJ	Riley, M., "Functions of gene products of <i>Escherichia coli</i> "; <i>Microbiol. Rev.</i> , 57 , 1993:862-952.	
	BK	Schaffner, A., et al., "Investigation of the factors necessary for growth of hippocampal neurons in a defined system"; <i>J. Neurosci. Methods</i> , 62 , 1995:111-119.	
	BL	Okuhara, D.Y., et al., Related Articles - "Corticosteroids alter 5-hydroxytryptamine 1A receptor effector pathway in hippocampal subfield CA3 pyramidal cells"; <i>J. Pharmacol. Exp. Ther.</i> , 284 (3), 1998 Mar.:1227-33.	
	BM	Miller, K.K., et al., Related Articles - "Cholecystokinin increases GABA release by inhibiting a resting K ⁺ conductance in hippocampal interneurons"; <i>J. Neurosci.</i> , 17 (13), 1997 Jul. 1:4994-5003.	
<i>✓</i>	BN	Figenschou, A., et al., Related Articles - "Cholinergic modulation of the action potential in rat hippocampal neurons"; <i>Eur. J. Neurosci.</i> , 8 (1), 1996 Jan:211-19.	

FORM PTO 1449 (modified)		Atty Docket No. 215177.00101	Application No. 09/575,377
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Applicant James J. Hickman	
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		Filing Date May 22, 2000	Group 1623-1631
Other Document(s) (continued) (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>MAS</i>	BO	Brewer, G.J., et al., Related Articles - "Optimized survival of hippocampal neurons in B27-supplemented Neurobasal, a new serum-free medium combination"; <i>J. Neurosci. Res.</i> , 35(5) , 1993 Aug. 1:567-76.	
<i>1</i>	BP	Wheeler, B.C., <u>Real Time Techniques for Automatic Discrimination of Single Units</u> ; book chapter, in press, to <i>Methods for Neural Ensemble Recordings</i> , M. Nicolelis (ed.), CRC Press.	
<i>1</i>	BQ	Hickman, J.J., et al., "Molecular self-assembly of two-terminal microsenors with internal references"; <i>Science</i> , 252 , 1991:688.	
<i>1</i>	BR	Wheeler, B.C., et al., <i>Multineuron patterning and recording</i> ; in McKenna & Stenger (Eds.) <u>Enabling Technologies for Cultured Neural Networks</u> , Academic Press; 1994:167-85.	
EXAMINER <i>MP Allen</i>		DATE CONSIDERED <i>11/25/02</i>	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
DC:4106315v1 - 121278-101